

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/013932 A1

- (51) International Patent Classification⁷: **A61K 7/48**, 31/13, A23L 1/305, A61P 17/00
- (21) International Application Number:
PCT/EP2004/008572
- (22) International Filing Date: 30 July 2004 (30.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
MI2003A001570 31 July 2003 (31.07.2003) IT
- (71) Applicant (*for all designated States except US*): GIULIANI S.P.A. [IT/IT]; Via P. Palagi, 2, I-20129 Milano (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): RINALDI, Fabio [IT/IT]; Via Benvenuto Cellini, 8, I-20129 Milano (IT). SORBELLINI, Elisabetta [IT/IT]; Via Parri, 6, I-20060 Mediglia (IT). BARONI, Sergio [IT/IT]; Via Piazzolo, 3, I-24030 Villa d'Adda (IT). BENEDUSI, Anna [IT/IT]; Via N. Sauro, 9, I-20124 Milano (IT).
- (74) Agent: APPOLONI, Romano; Notarbartolo & Gervasi S.p.A., Corso di Porta Vittoria, 9, I-20122 Milan (IT).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— *of inventorship (Rule 4.17(iv)) for US only*
- Published:**
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: USE OF SPERMINE AND/OR SPERMIDINE AGAINST SKIN AGETING IN DIETARY, PHARMACEUTICAL OR COSMETIC COMPOSITIONS

(57) Abstract: The invention concerns the use of spermine and spermidine as active ingredients in the preparation of a composition for dietary, pharmaceutical or cosmetic use in humans for health and beauty of the skin and skin appendages, and related compositions for pharmaceutical or dietary or cosmetic use for administration to humans.

WO 2005/013932 A1